

positi  
vs  
sequen

Synthesmatrix  
File

Experiment

MATRIX + ~~Do~~  
Target

Scanning

Sequences  
vs hybrid  
intensity

File

File

positi  
vs  
hybrid  
intensity

Target  
seq info

File

hybrids of  
Target

sequencing Alignment  
(or Algorithm)

Solution

Figure 1

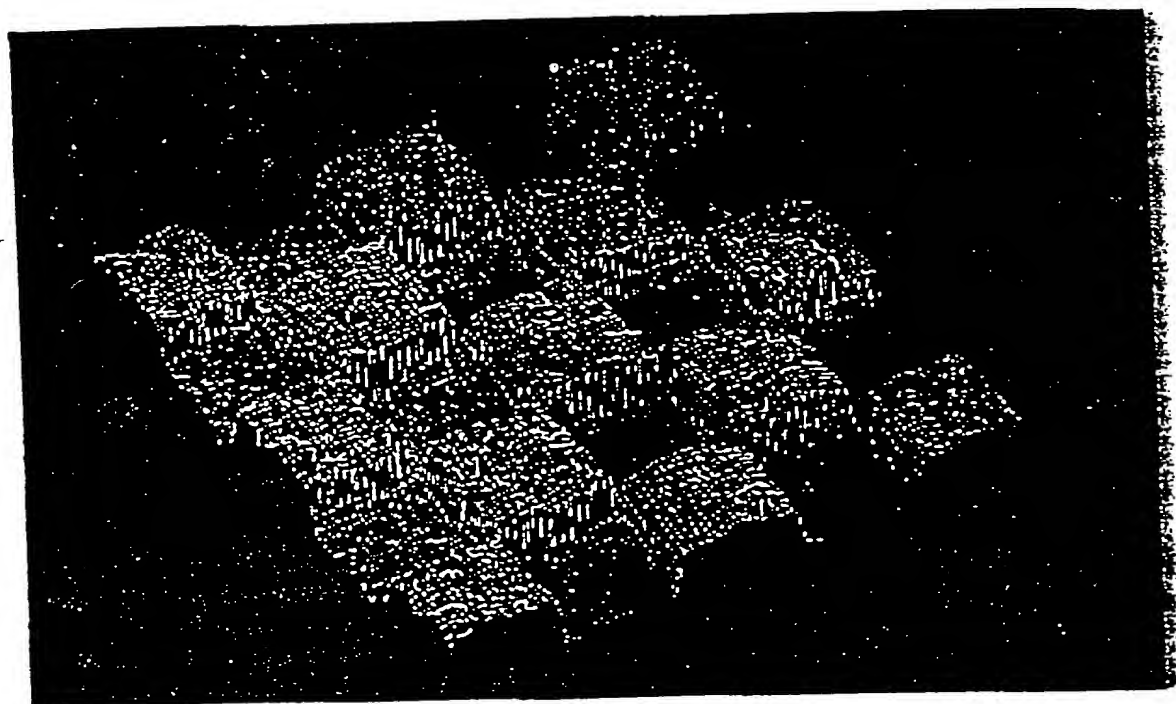


Figure 2

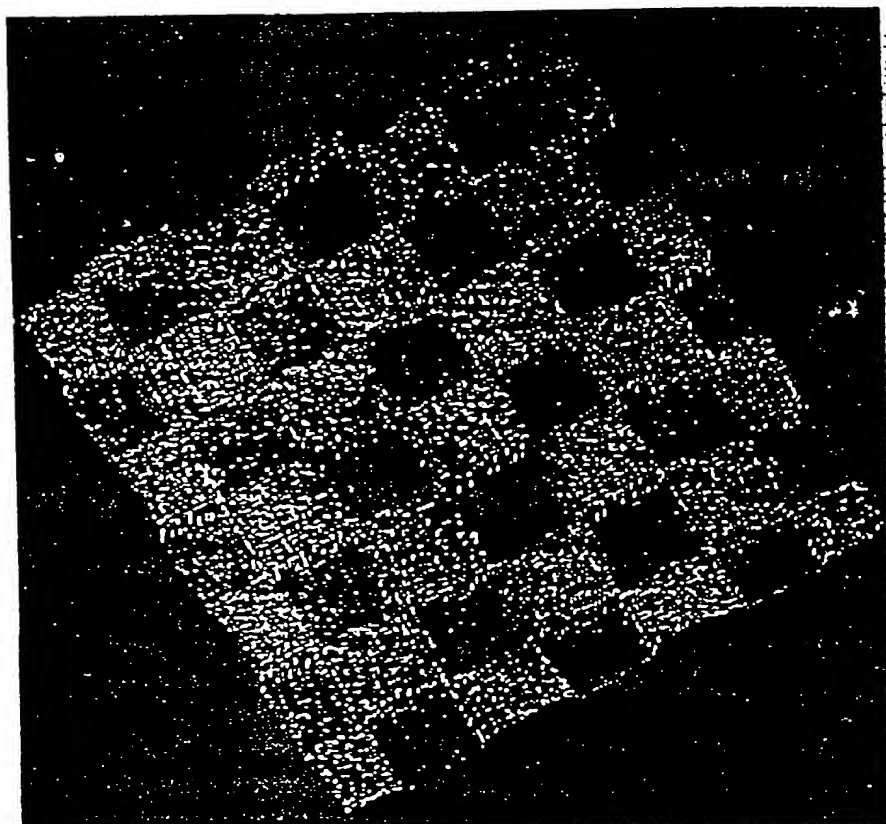


Figure 3

007060" 21615960

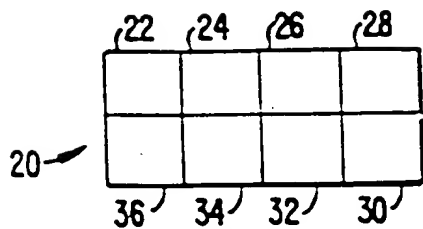


FIG. 4 A.

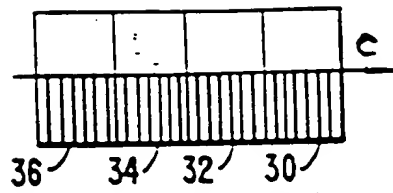


FIG. 4 B.

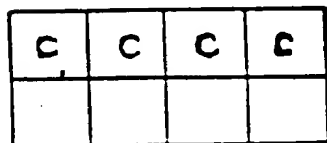


FIG. 4 C.

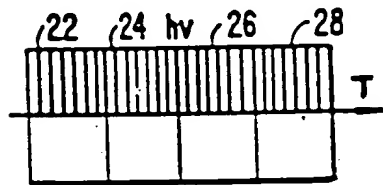


FIG. 4 D.

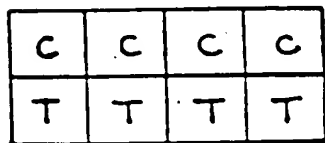


FIG. 4 E.

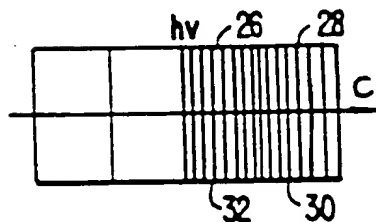


FIG. 4 F.

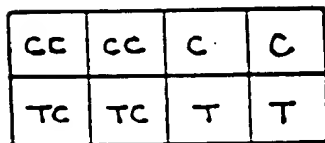


FIG. 4 G.

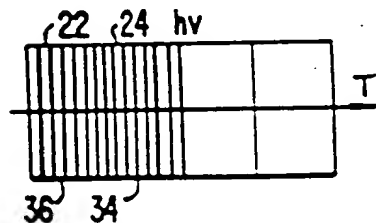


FIG. 4 H.

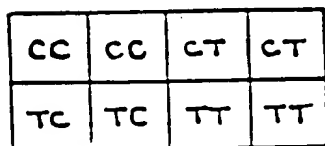


FIG. 4 I.

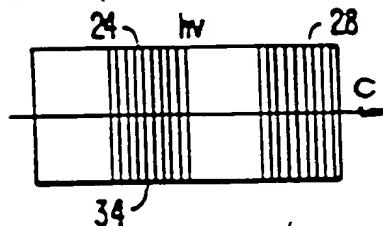


FIG. 4 J.

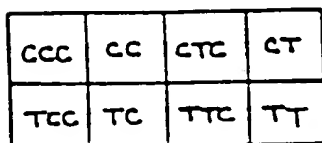


FIG. 4 K.

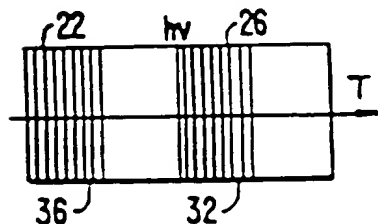


FIG. 4 L.

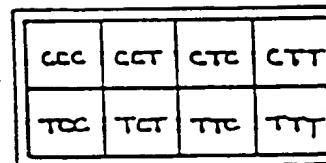


FIG. 4 M.

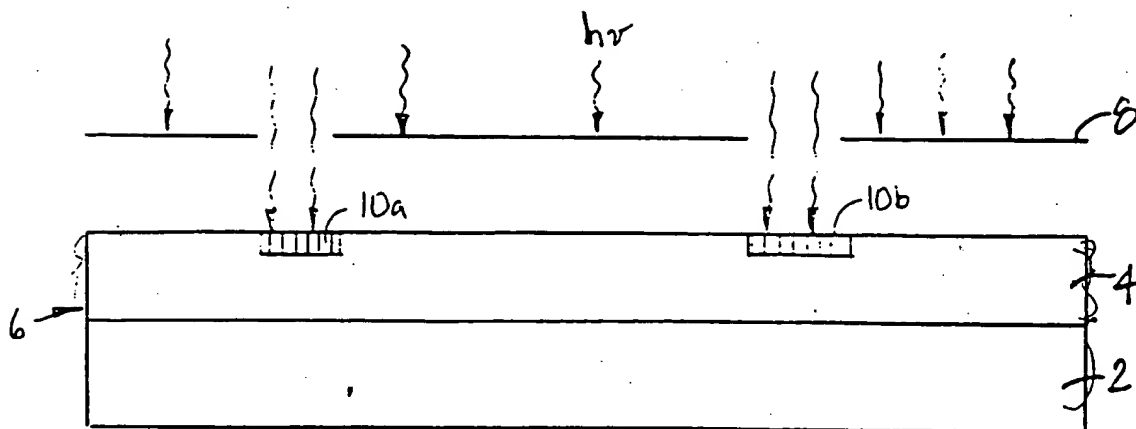


FIG. 5

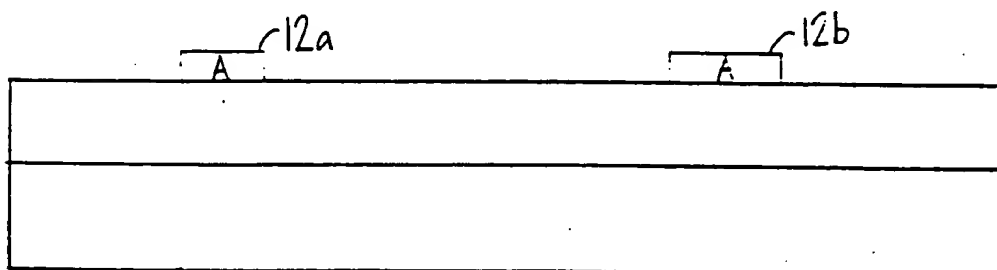


FIG. 6

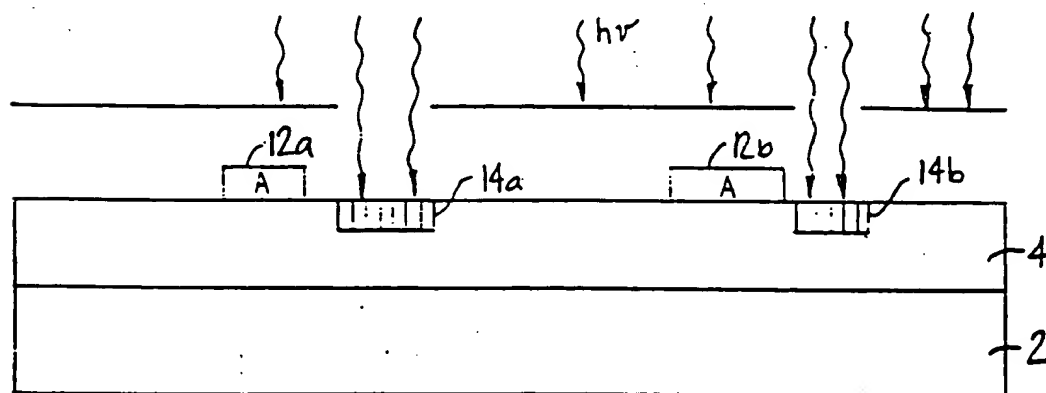


FIG. 7

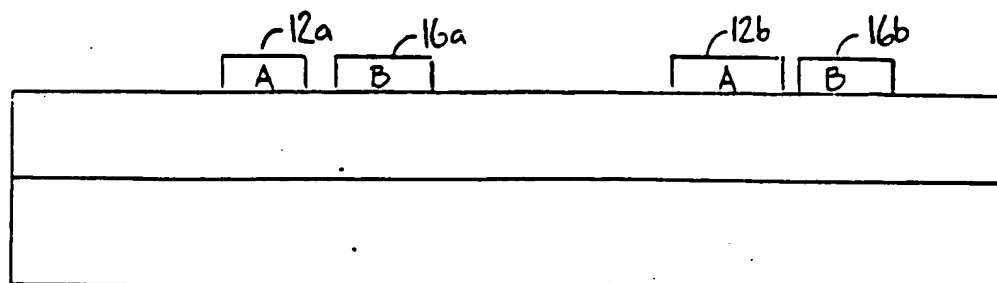


FIG. 8

001000-0101500

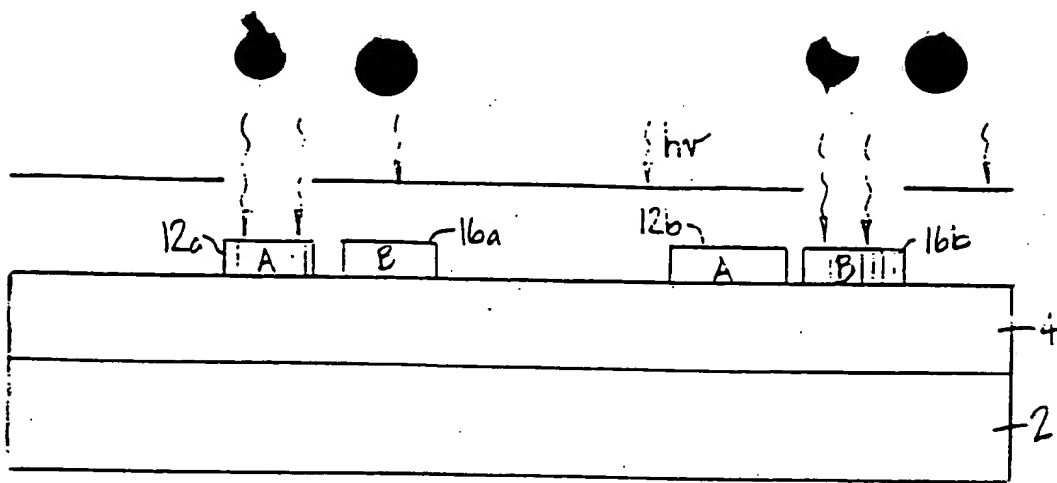


FIG. 9

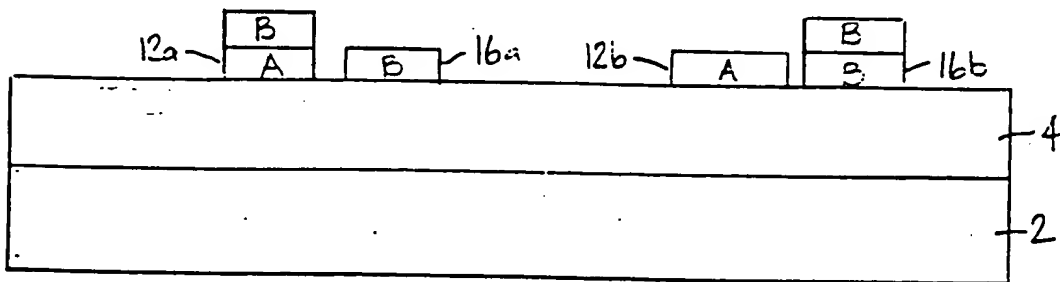


FIG. 10

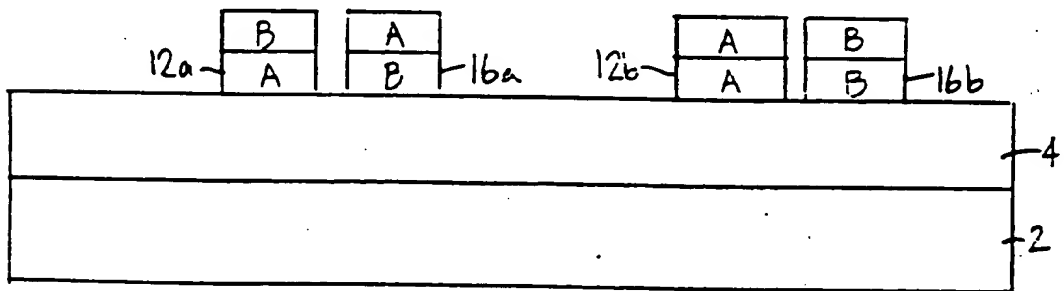


FIG. 11

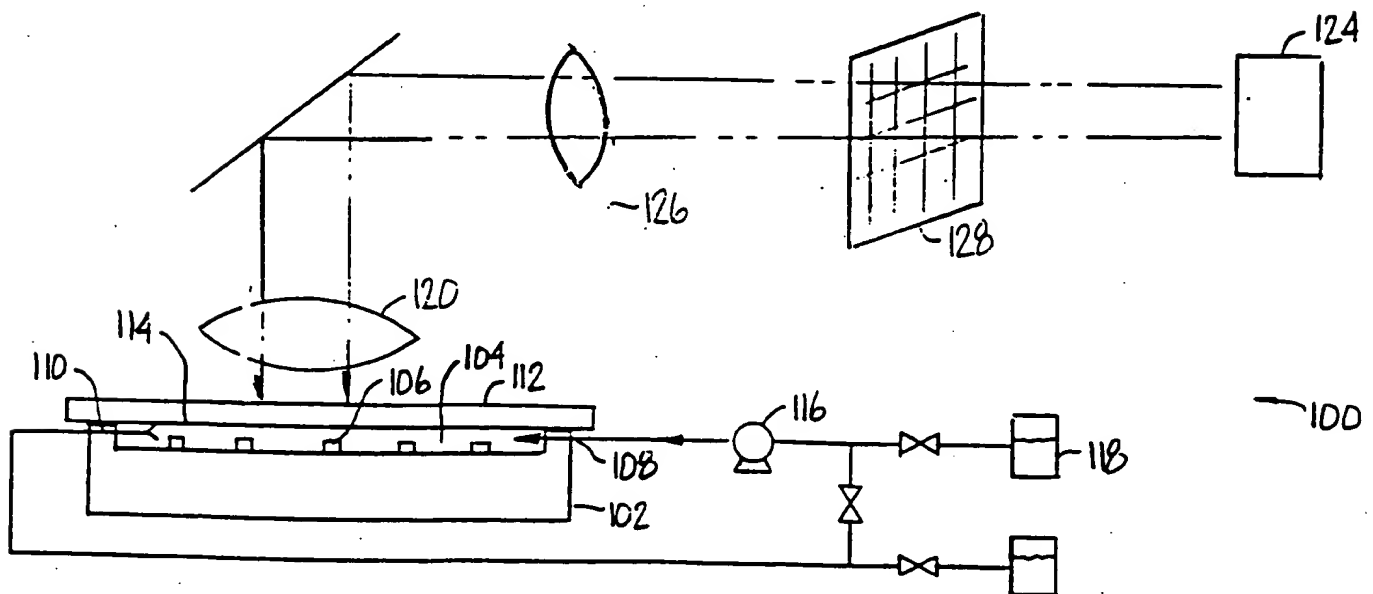


FIG. 12 A

007000-8145960

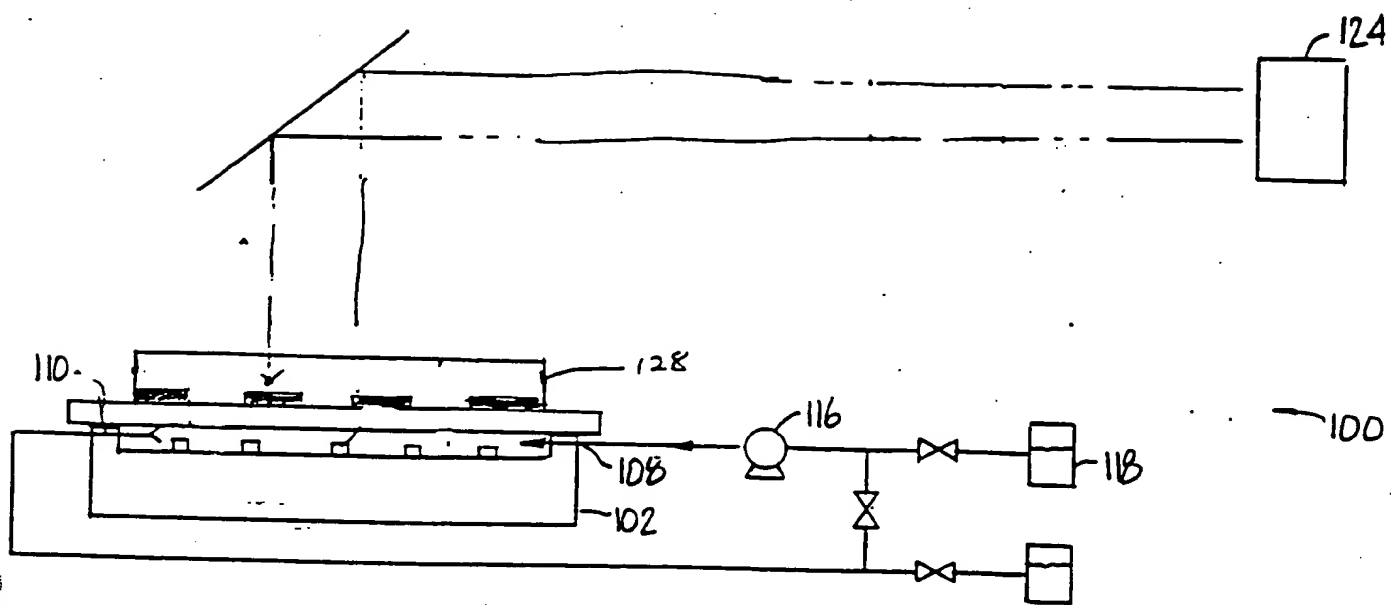


FIG. 12 B

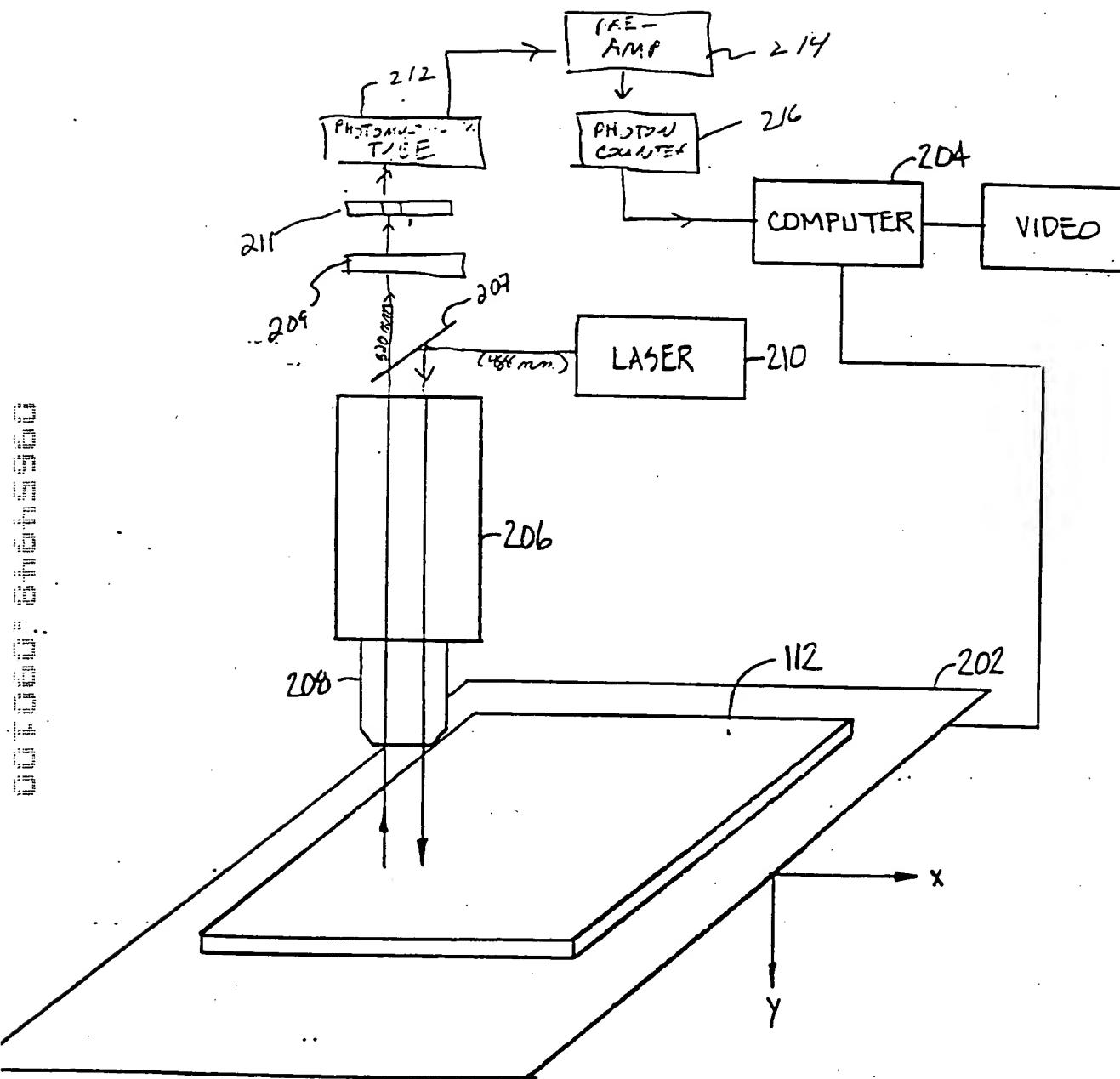


FIG. 13





FIG. 15 A

5.8  $\mu$  beads / 7,000 Fluorescein

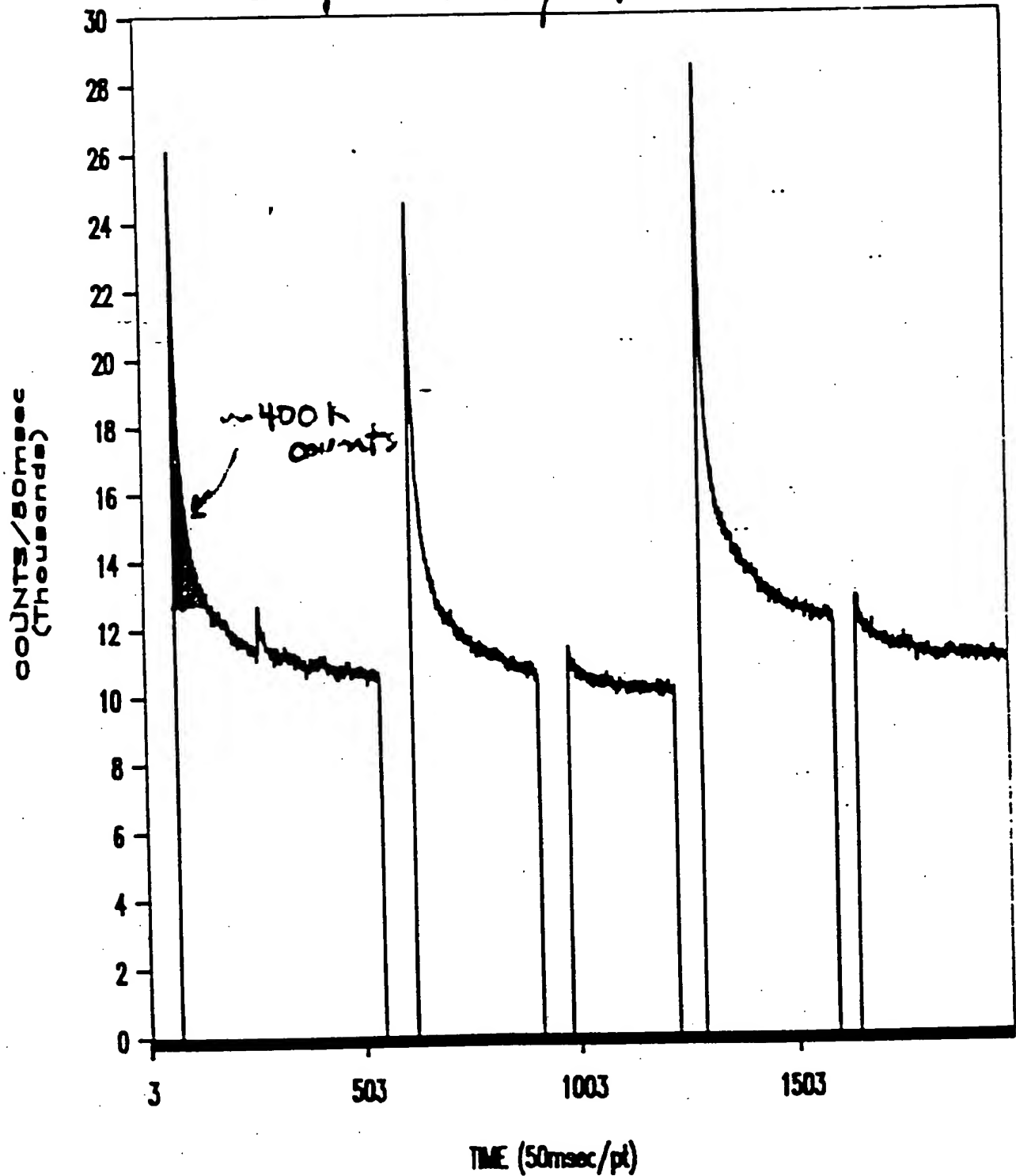
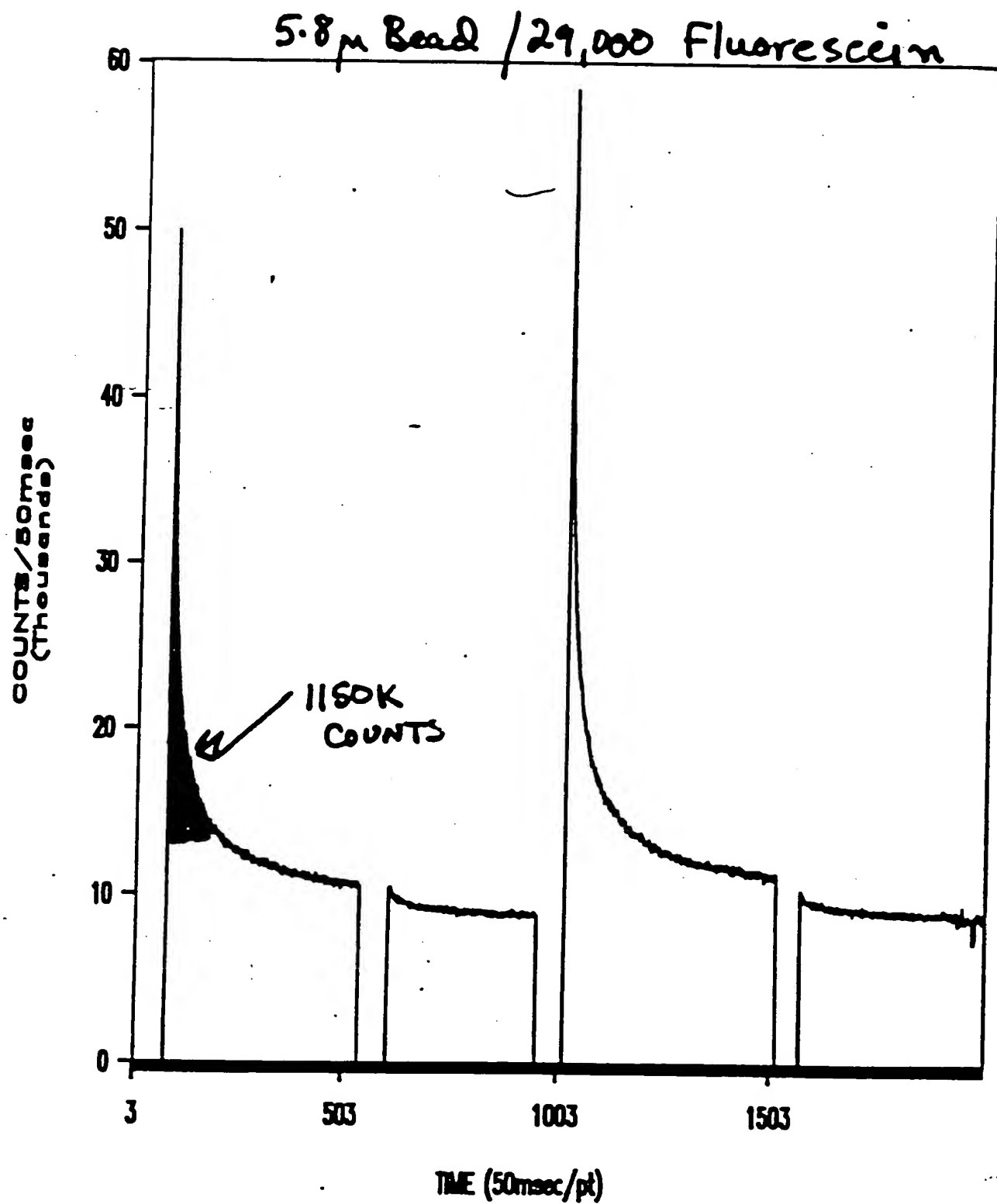


FIG. 15 B



$\sim 8 \times 10^{-6}$  chromophore /  $\text{\AA}^2$

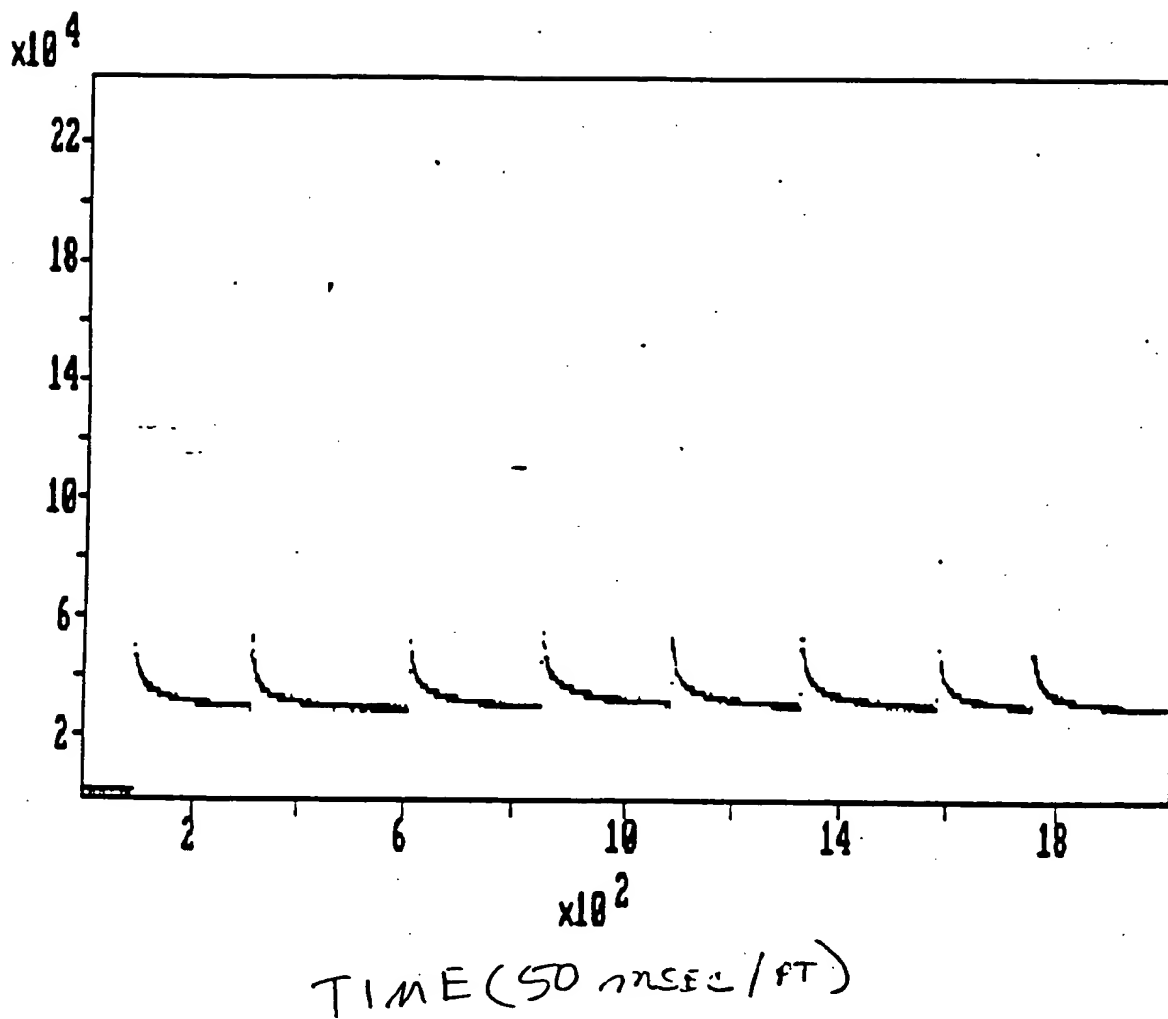
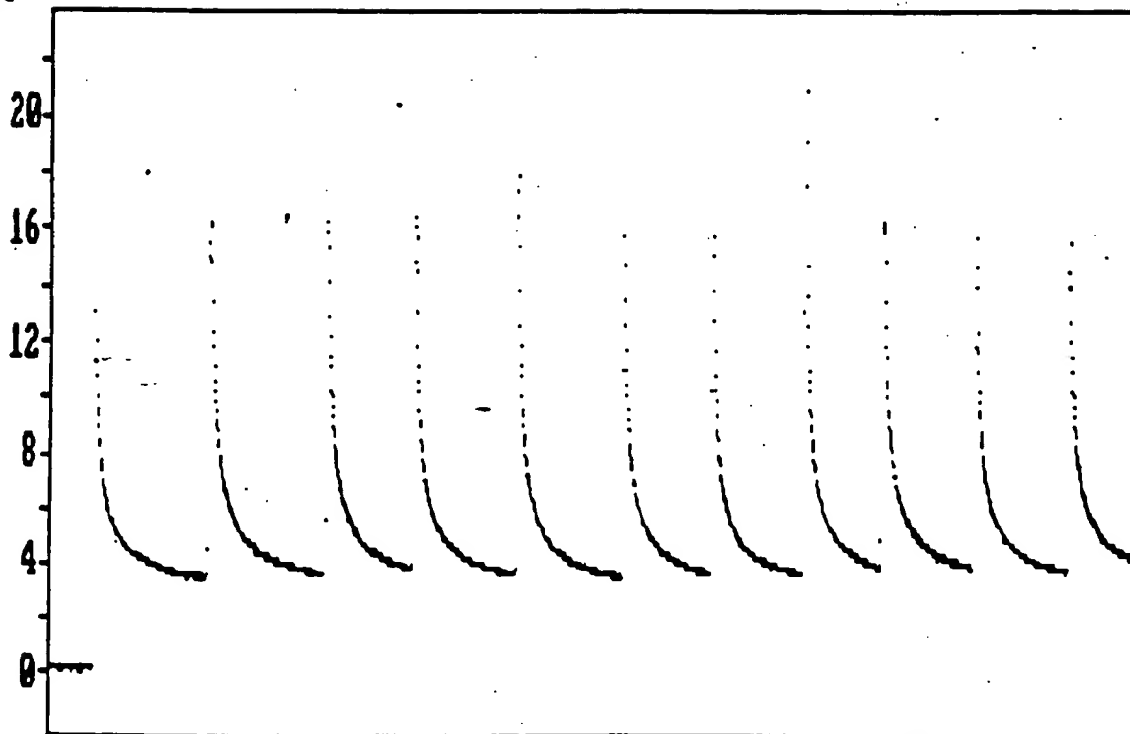


FIG. 16 A

$\times 10^4$



TIME (50 MSEC/PT)

FIG. 16 B

FIG. 17 A

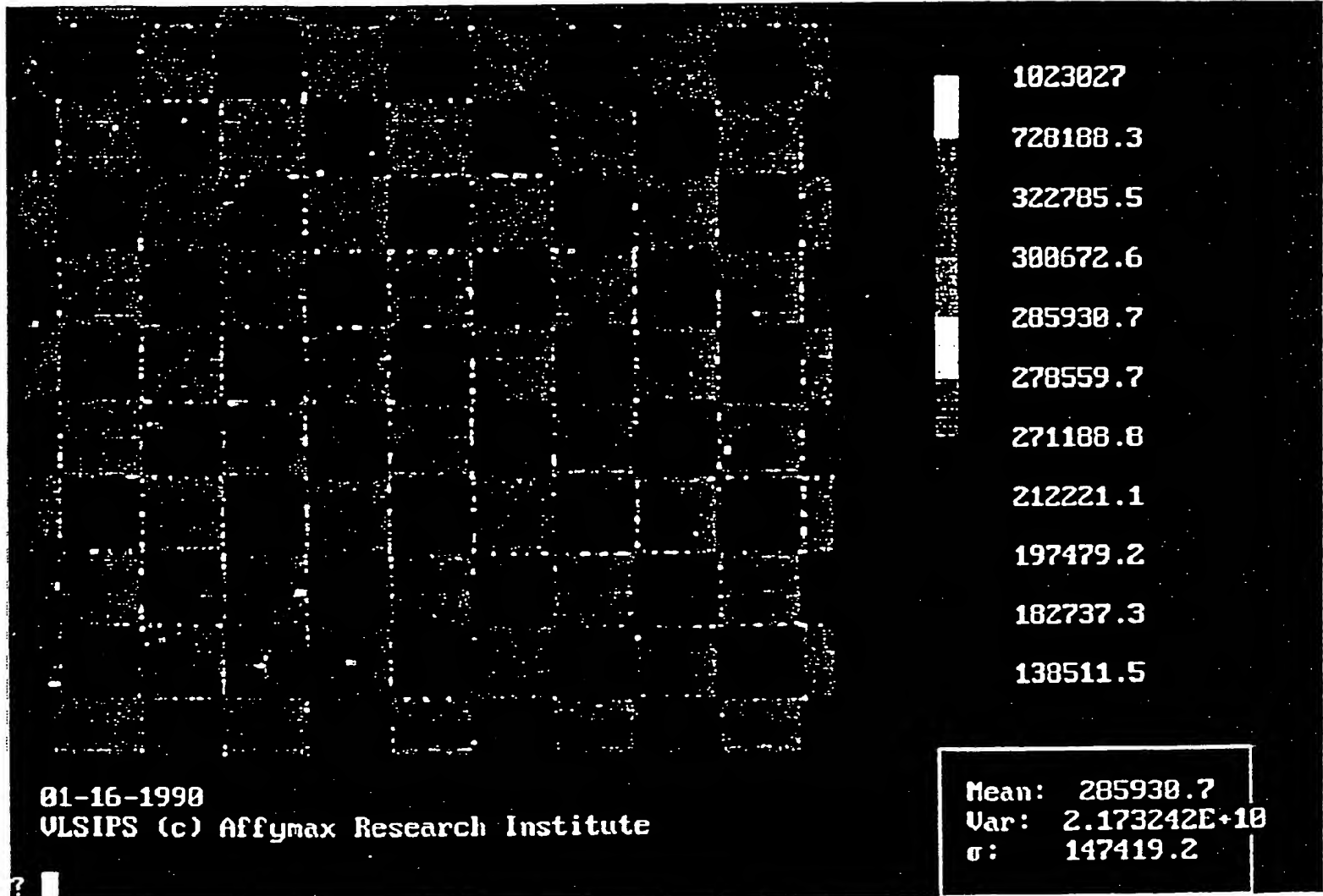


FIG. 17 B

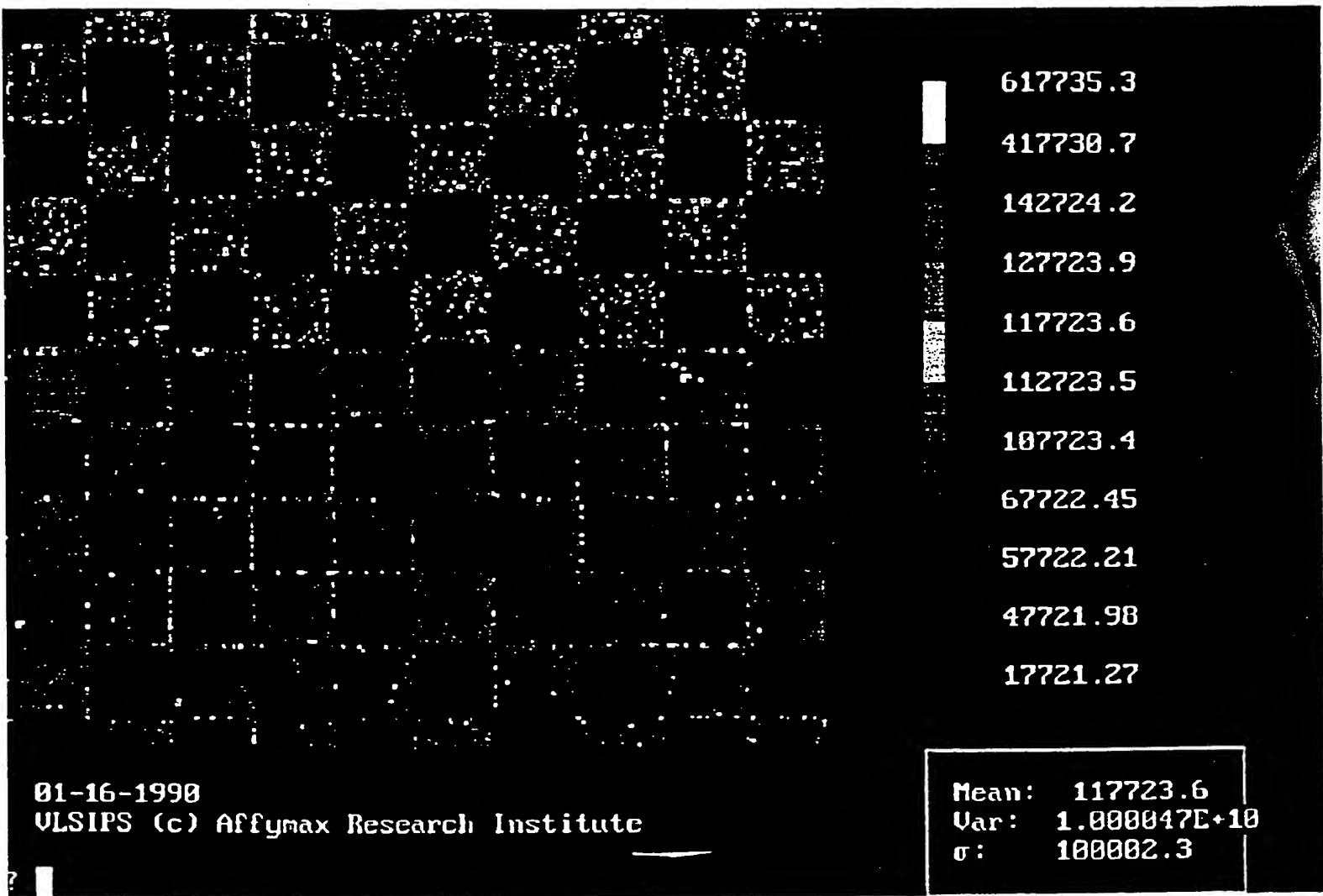


FIG. 17 C

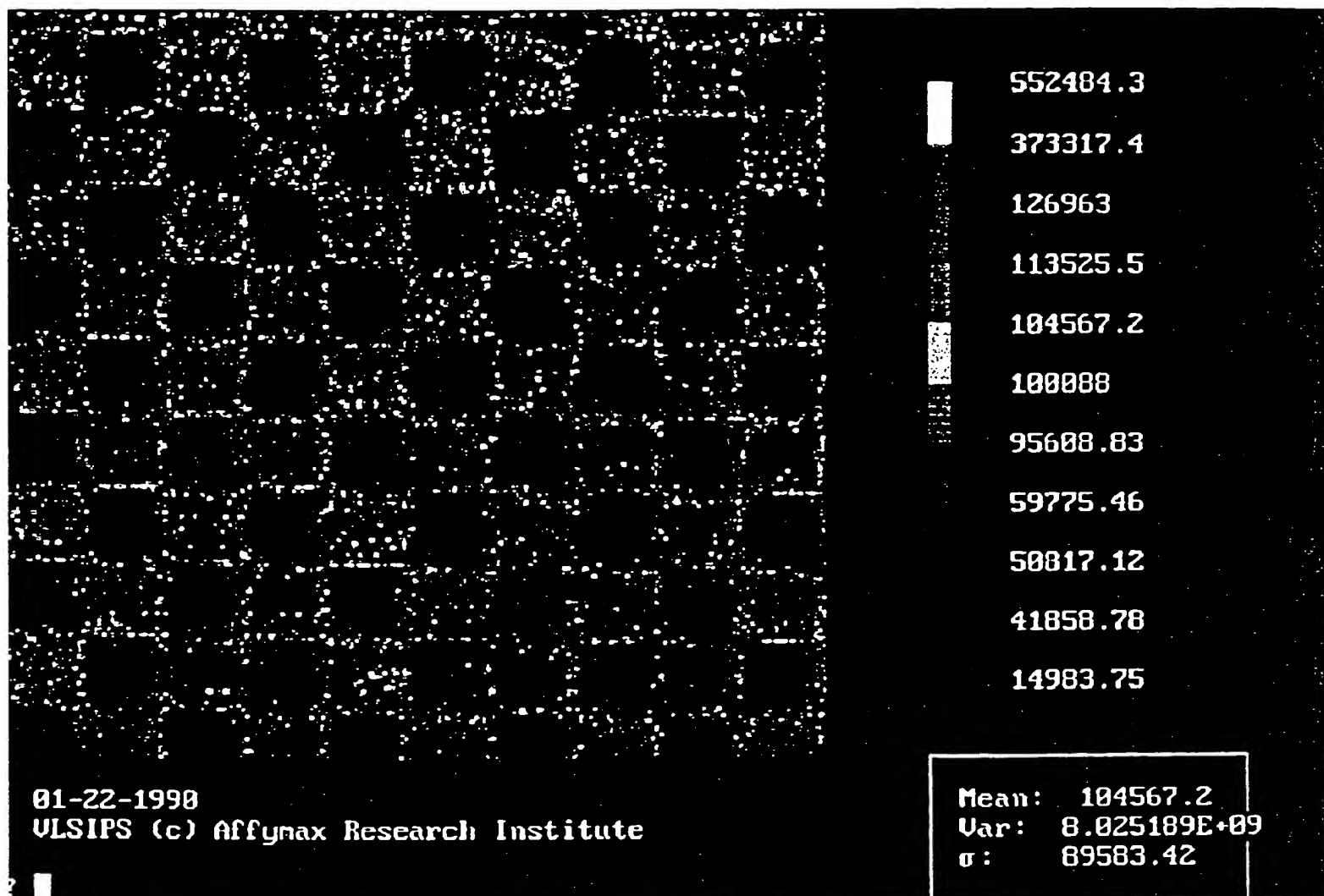




FIG. 17 D

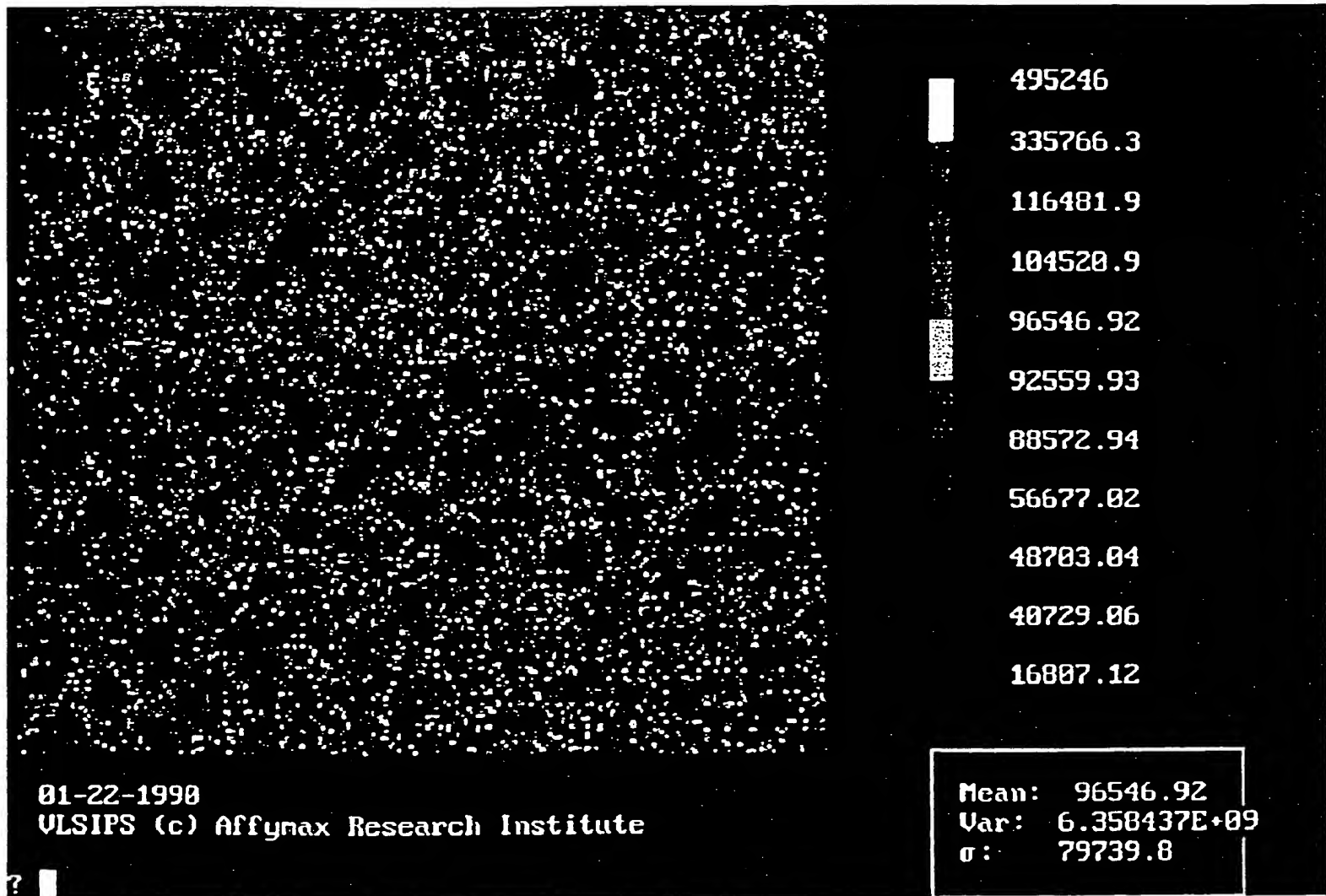


FIG. 18



136807.9

71272.12

46996.48

42141.31

38984.53

37286.14

35667.75

22720.63

19483.85

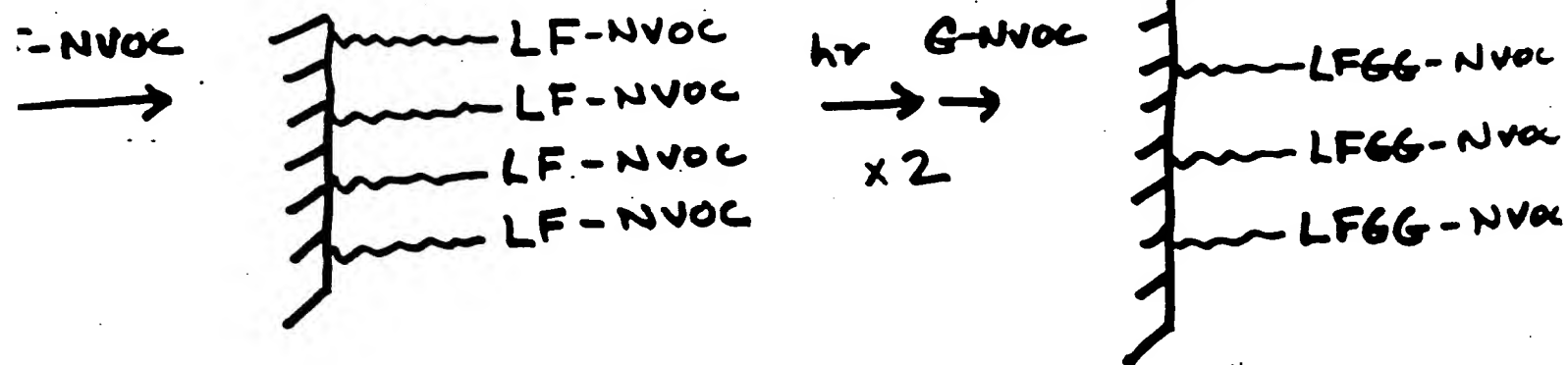
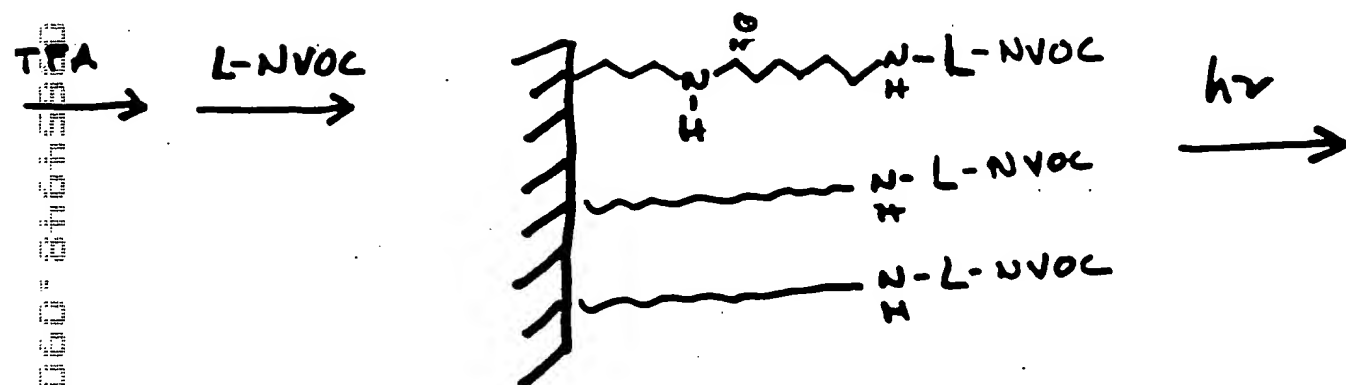
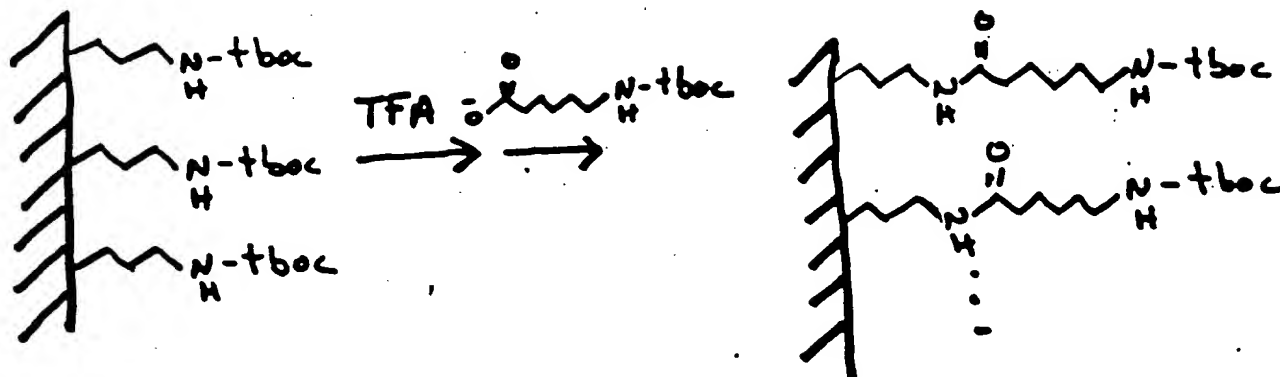
16247.07

6536.731

12-19-1989  
ULSIPS (c) Affymax Research Institute

Mean: 38984.53  
Var: 1.047674E+09  
 $\sigma$ : 32367.8

FIG. 19 A



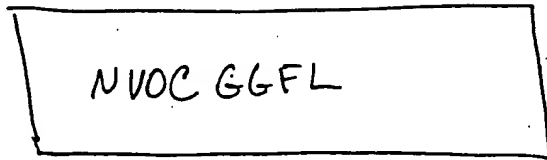
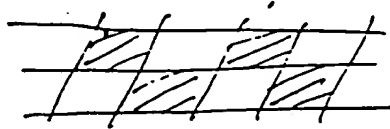
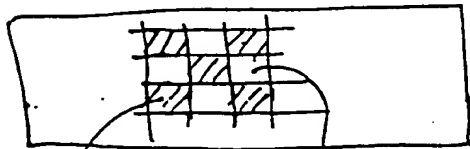


FIG. 19 B

↓ hr



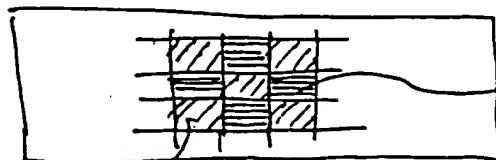
500 x 500 μm MASK



NVOC GGFL

H<sub>2</sub>N GGFL

↓ NVOCY, hr



H<sub>2</sub>N GGFL

H<sub>2</sub>NY GGFL

↓ HEK2

↓ GOAT ANTI-MOUSE-FI

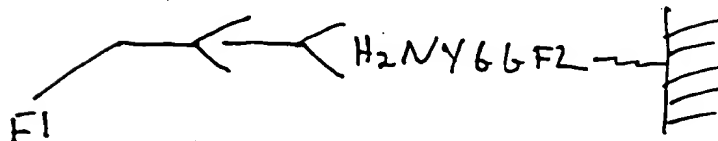


FIG. 19 C

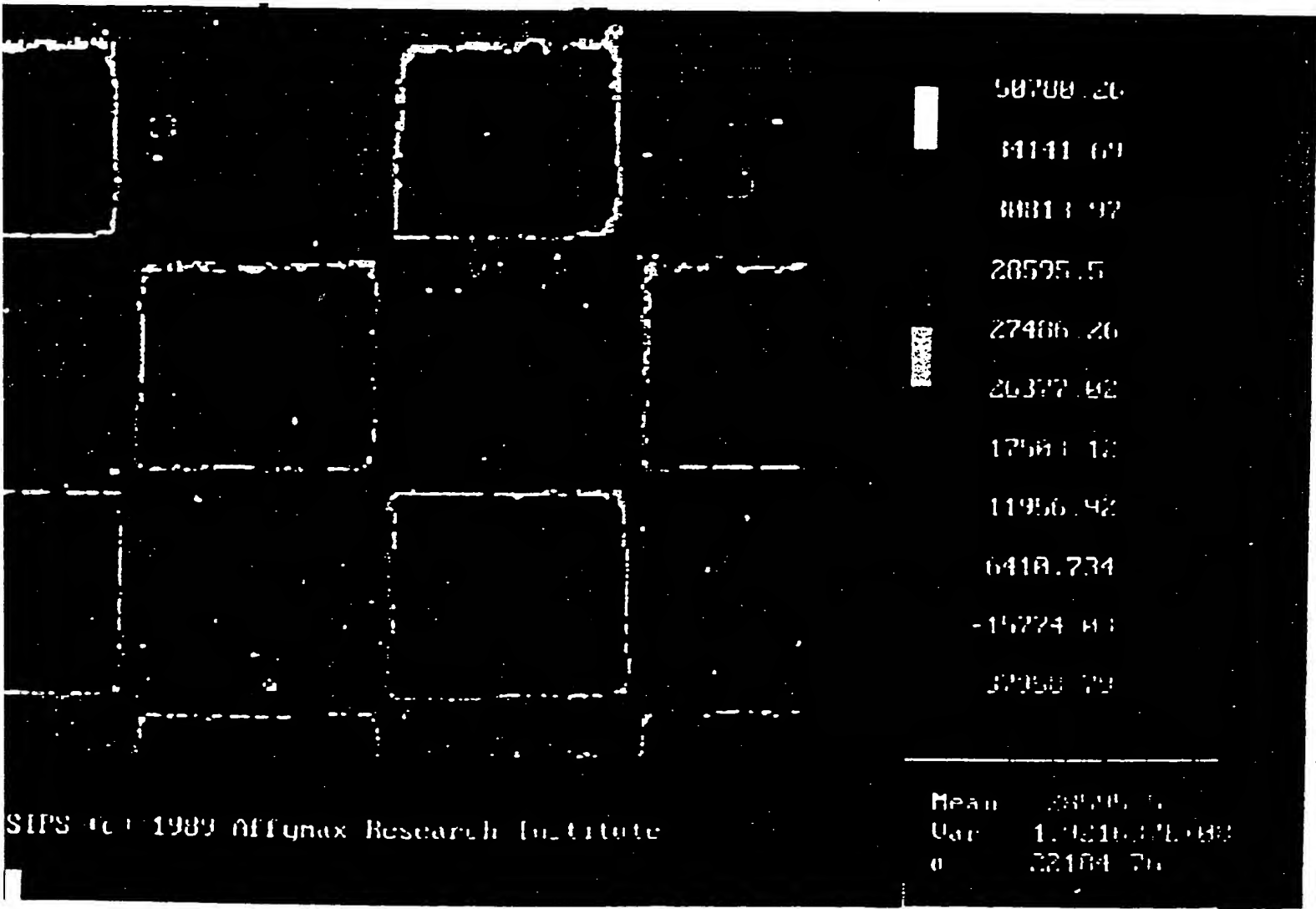


FIG. 19 D

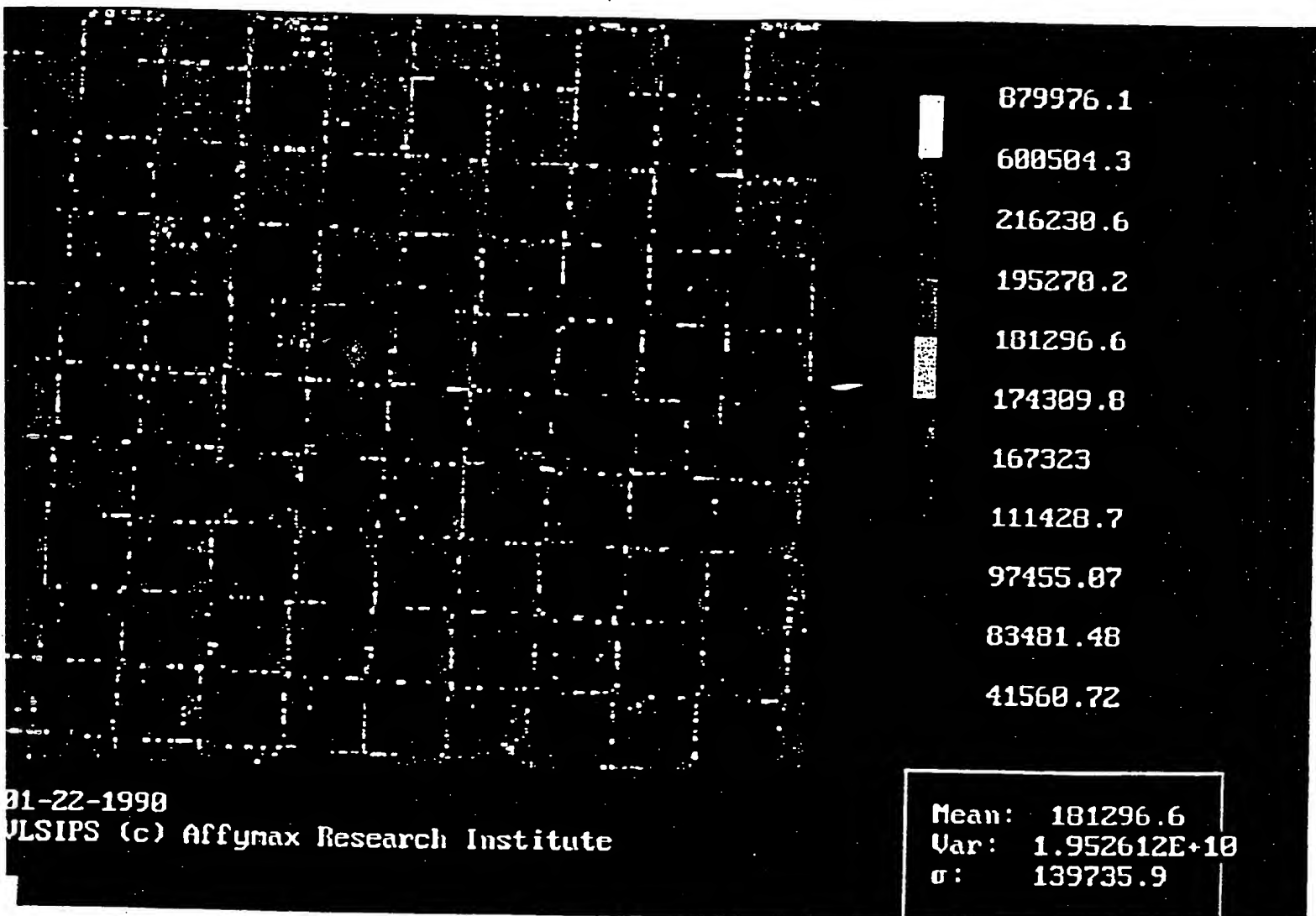


FIG. 20

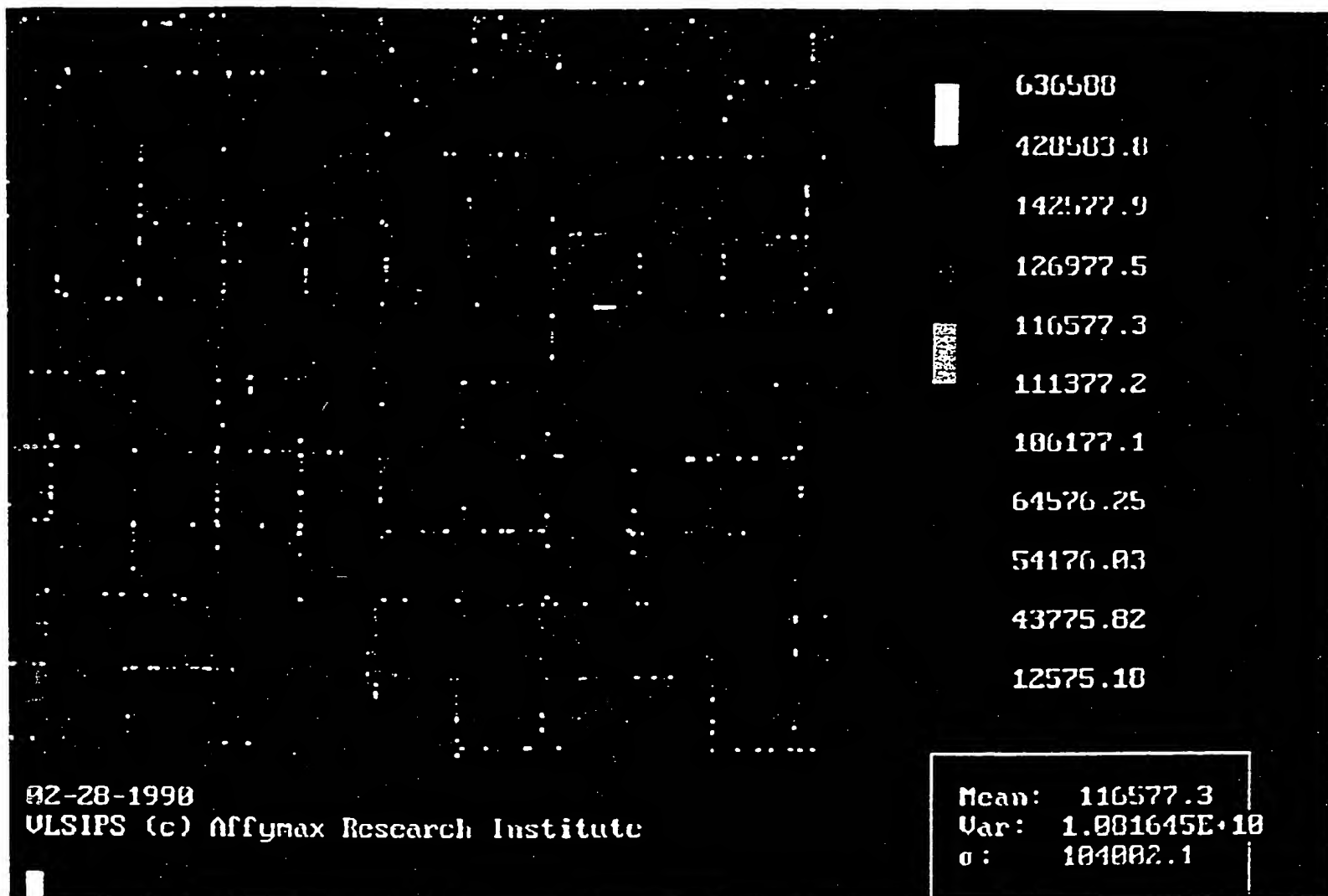
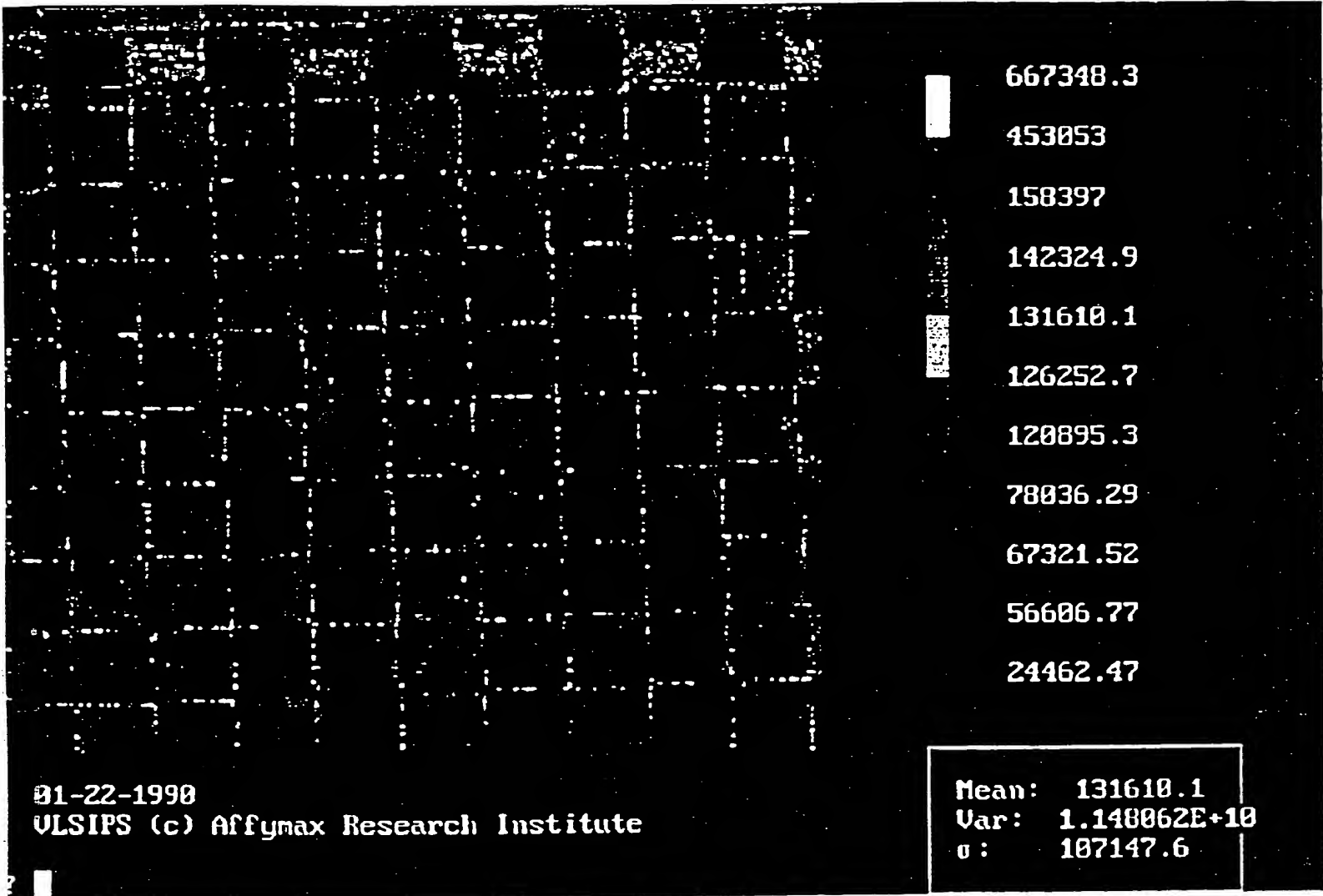


FIG. 21





P A S G

<u>L</u> PGFL	<u>L</u> AGFL	<u>L</u> SGFL	<u>L</u> GGFL
<u>F</u> PGFL	<u>F</u> AGFL	<u>F</u> SGFL	<u>F</u> GGFL
<u>W</u> PGFL	<u>W</u> AGFL	<u>W</u> SGFL	<u>W</u> GGFL
<u>Y</u> PGFL	<u>Y</u> AGFL	<u>Y</u> SGFL	<u>Y</u> GGFL

L  
F L set  
W  
Y

FIG. 22 A

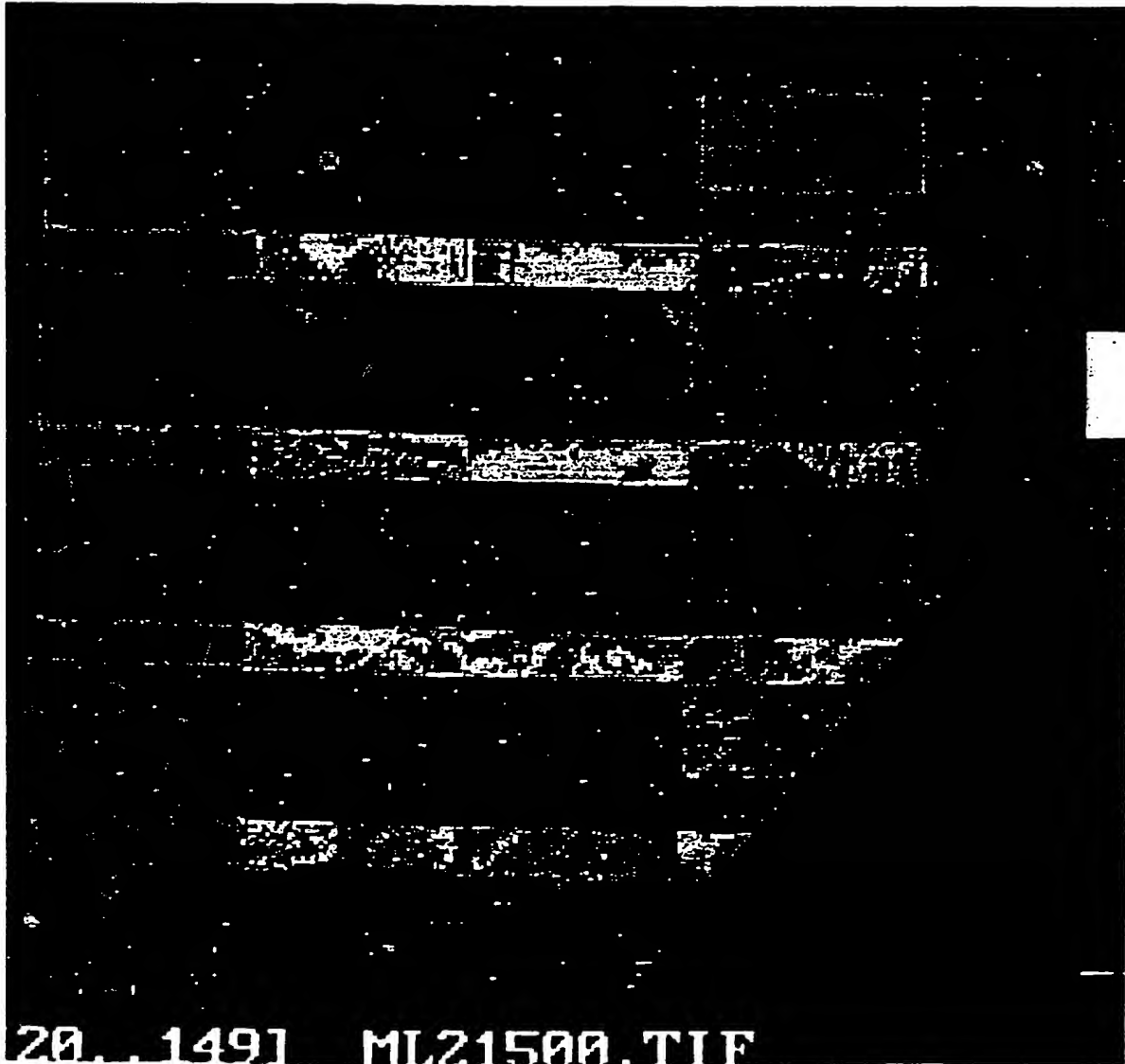
P a A G

<u>Y</u> PGFL	<u>Y</u> aGFL	<u>Y</u> AGFL	<u>Y</u> GGFL
<u>f</u> PGFL	<u>f</u> aGFL	<u>f</u> AGFL	<u>f</u> GGFL
<u>w</u> PGFL	<u>w</u> aGFL	<u>w</u> AGFL	<u>w</u> GGFL
<u>y</u> PGFL	<u>y</u> aGFL	<u>y</u> AGFL	<u>y</u> GGFL

Y  
f D set  
w  
y

FIG. 22 B

FIG. 23

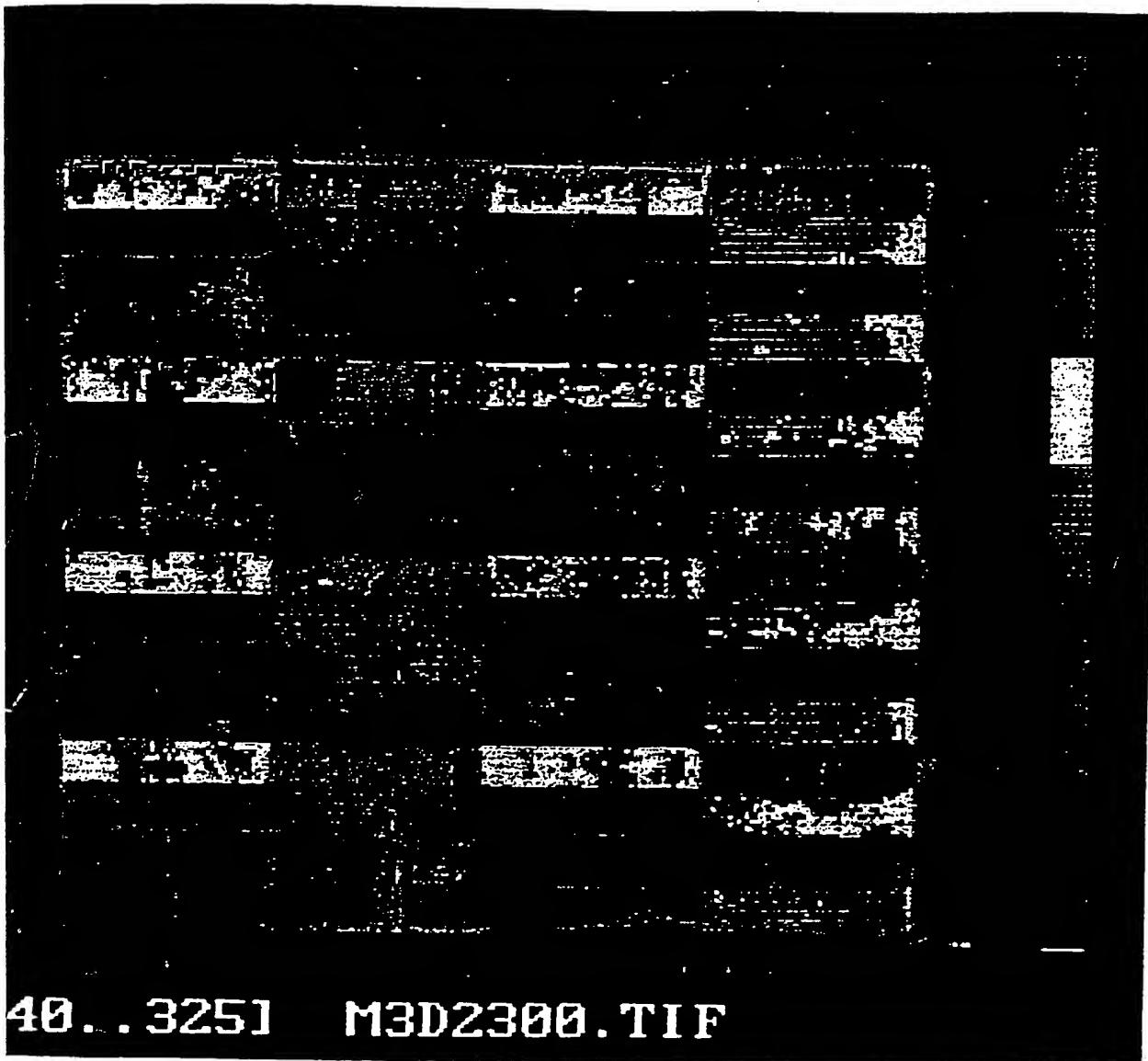


149,000

20,000

20...1491 ML21500.TIF

FIG. 24



325,000

40,000